



Missouri
Department of
Natural Resources

Union Electric Company (Ameren Missouri)
Power Plant Name: Meramec
Electric Generation and Emissions in 2010

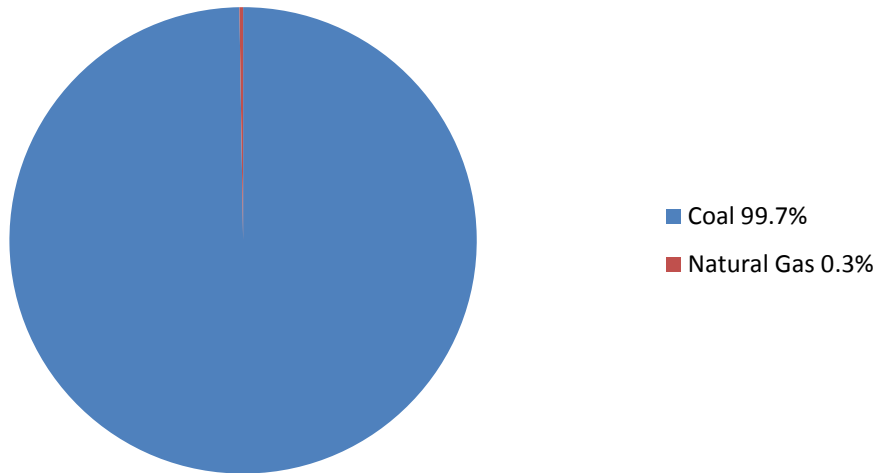
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal	55,708,626	99.7%	99.7%	5,302,706	99.7%	99.7%
Natural Gas	141,744	0.3%	0.3%	13,419	0.3%	0.3%
Petroleum						
Nuclear						
Other						
Non-renewable total	55,850,370	100.0%	100.0%	5,316,125	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	55,850,370		100.0%	5,316,125		100.0%

Fuel Type	Physical Units	Number of Units
Sub-bituminous Coal	Short Tons	3,181,876
Natural Gas	MCf	139,263



Net Generation by Fuel Type, 2010 for Meramec





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Power Plant Nameplate information for Meramec

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
<i>Meramec</i>		<i>All Operating Generators</i>			<i>4,164.0</i>
Meramec	St Louis	GT1	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	248.0
Meramec	St Louis	GT2	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	224.0
Meramec	St Louis	1	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	550.0
Meramec	St Louis	2	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	550.0
Meramec	St Louis	3	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	1,156.0
Meramec	St Louis	4	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	1,436.0



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Emissions from Electricity Generated in 2010: Meramec

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Meramec	202,471,895	23,864,421	2,702,585	393,075

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Meramec	33,646	0.0000	0.0000

Identified Flue Gas Desulfurization (FGD) controls installed on Meramec power plant

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on Meramec power plant

Plant	Control Equipment
Meramec	Electrostatic precipitator, cold side, without flue gas conditioning



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Notes:

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>